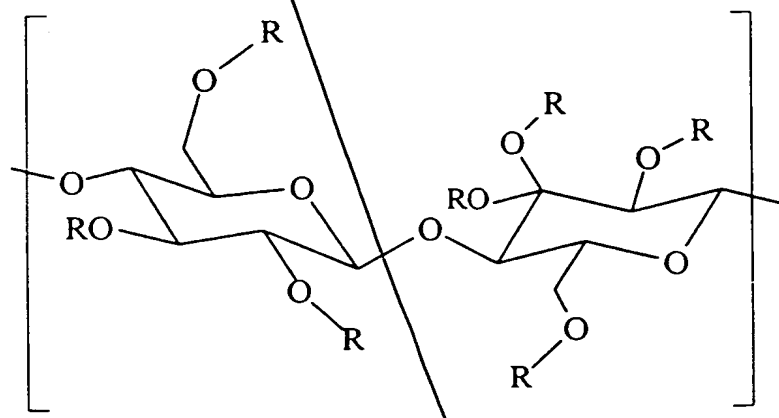
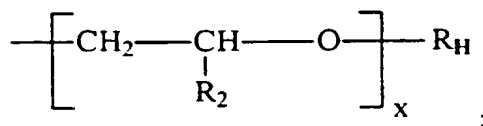


## WHAT IS CLAIMED IS:

1. A detergent composition characterized by:
  - a) from 1% to 80% by weight of surfactants selected from the group consisting of nonionic, anionic, cationic, amphoteric zwitterionic surfactants and mixtures thereof; and
  - b) at least 0.01%, preferably at least 0.1%, most preferably at least 0.5% and no more than 50%, preferably no more than 25.0%, most preferably no more than 5.0%, by weight, of a mixture of cyclic amine based polymers, oligomers or copolymers and hydrophobically modified cellulosic based polymers or oligomers.
2. The detergent composition of claim 1, wherein the hydrophobically modified cellulosic based polymers or oligomers are of the general formula:



wherein each R is selected from the group consisting of  $R_2$ ,  $R_C$ , and



wherein:

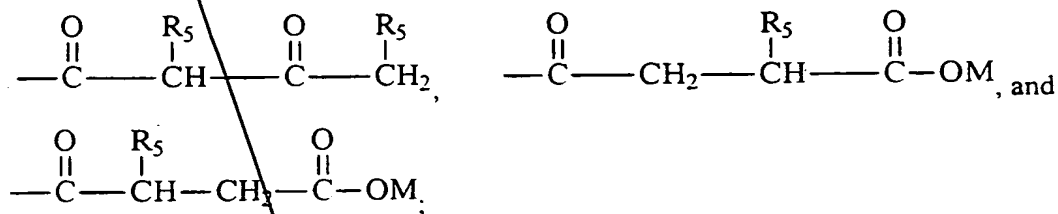
- each  $R_2$  is independently selected from the group consisting of H and  $C_1$ - $C_4$  alkyl;

- each  $R_C$  is  $-(\text{CH}_2)_y-\overset{\text{O}}{\parallel}{\text{C}}-\text{OZ}$ ,

wherein each Z is independently selected from the group consisting of M,  $R_2$ ,  $R_C$ , and  $R_H$ ;

- each  $R_H$  is independently selected from the group consisting of  $C_5$ - $C_{20}$  alkyl,  $C_5$ - $C_7$  cycloalkyl,  $C_7$ - $C_{20}$  alkylaryl,  $C_7$ - $C_{20}$  arylalkyl, substituted alkyl, hydroxyalkyl,  $C_1$ - $C_{20}$

alkoxy-2-hydroxyalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryloxy-2-hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, (R<sub>4</sub>)<sub>2</sub>N-2-hydroxyalkyl, (R<sub>4</sub>)<sub>3</sub>N-alkyl, (R<sub>4</sub>)<sub>3</sub>N-2-hydroxyalkyl, C<sub>6</sub>-C<sub>12</sub> aryloxy-2-hydroxyalkyl,



- each R<sub>4</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, aminoalkyl, alkylaminoalkyl, dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;
- each R<sub>5</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>20</sub> alkyl, C<sub>5</sub>-C<sub>7</sub> cycloalkyl, C<sub>7</sub>-C<sub>20</sub> alkylaryl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, substituted alkyl, hydroxyalkyl, (R<sub>4</sub>)<sub>2</sub>N-alkyl, and (R<sub>4</sub>)<sub>3</sub>N-alkyl;

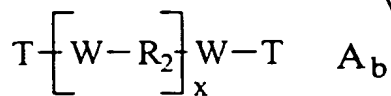
wherein:

M is a suitable cation selected from the group consisting of Na, K, 1/2Ca, and 1/2Mg;  
 each x is from 0 to 5;  
 each y is from 1 to 5; and

provided that:

- the Degree of Substitution for group R<sub>H</sub> is between 0.0005 and 0.1, more preferably between 0.005 and 0.05, and most preferably between 0.01 and 0.05;
- the Degree of Substitution for group R<sub>C</sub> wherein Z is H or M is between 0.2 and 2.0, more preferably between 0.3 and 1.0, and most preferably between 0.4 and 0.7;
- if any R<sub>H</sub> bears a positive charge, it is balanced by a suitable anion; and
- two R<sub>4</sub>'s on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.

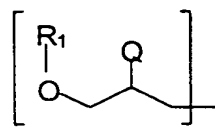
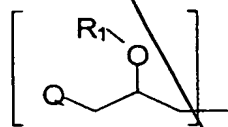
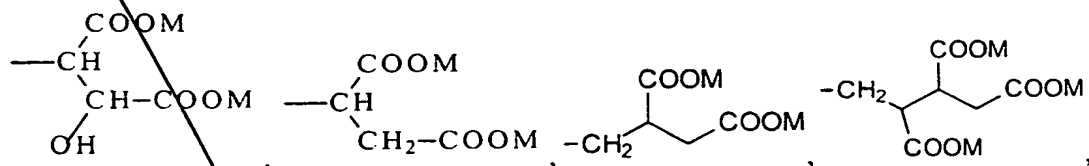
3. The detergent composition of any of claims 1-2, wherein the cyclic amine based polymers, oligomers or copolymers are of the general formula:



wherein,  
each T is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>12</sub> alkyl, substituted alkyl,

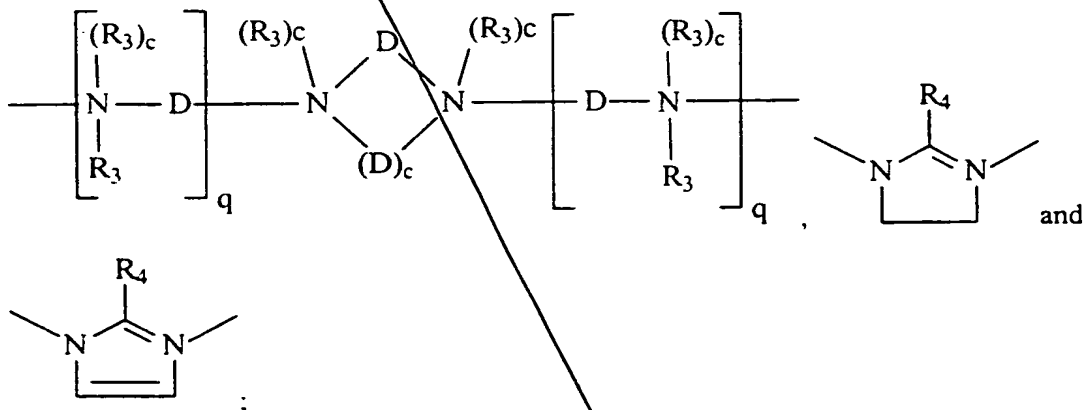
C<sub>7</sub>-C<sub>12</sub> alkylaryl,

-(CH<sub>2</sub>)<sub>h</sub>COOM, -(CH<sub>2</sub>)<sub>h</sub>SO<sub>3</sub>M, CH<sub>2</sub>CH(OH)SO<sub>3</sub>M, -(CH<sub>2</sub>)<sub>h</sub>OSO<sub>3</sub>M,

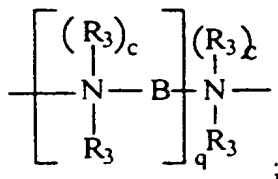


, and -R<sub>2</sub>Q;

-wherein W is characterized by at least one cyclic constituent selected from the group consisting of:



in addition to the at least one cyclic constituent, W may also comprise an aliphatic or substituted aliphatic moiety of the general structure;



-each B is independently C<sub>1</sub>-C<sub>12</sub> alkylene, C<sub>1</sub>-C<sub>12</sub> substituted alkylene, C<sub>3</sub>-C<sub>12</sub> alkenylene, C<sub>8</sub>-C<sub>12</sub> dialkylarylene, C<sub>8</sub>-C<sub>12</sub> dialkylarylenediyl, and -(R<sub>5</sub>O)<sub>n</sub>R<sub>5</sub>;

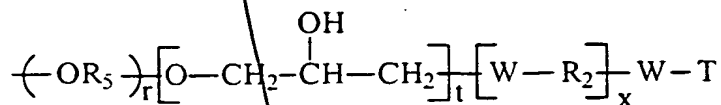
-each D is independently C<sub>2</sub>-C<sub>6</sub> alkylene;

-each Q is independently selected from the group consisting of hydroxy, C<sub>1</sub>-C<sub>18</sub> alkoxy, C<sub>2</sub>-C<sub>18</sub> hydroxyalkoxy, amino, C<sub>1</sub>-C<sub>18</sub> alkylamino, dialkylamino, trialkylamino groups, heterocyclic monoamino groups and diamino groups;

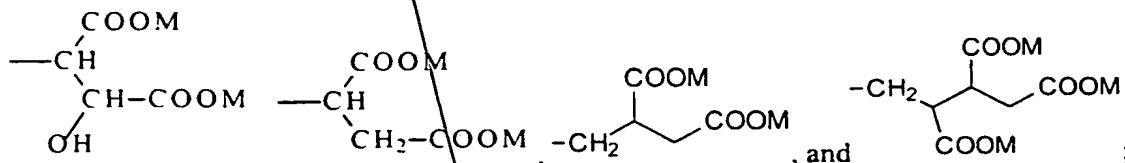
-each R<sub>1</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>8</sub> alkyl and C<sub>1</sub>-C<sub>8</sub> hydroxyalkyl;

-each R<sub>2</sub> is independently selected from the group consisting of C<sub>1</sub>-C<sub>12</sub> alkylene, C<sub>1</sub>-C<sub>12</sub> alkenylene, -CH<sub>2</sub>-CH(OR<sub>1</sub>)-CH<sub>2</sub>, C<sub>8</sub>-C<sub>12</sub> alkarylene, C<sub>4</sub>-C<sub>12</sub> dihydroxyalkylene, poly(C<sub>2</sub>-C<sub>4</sub> alkyleneoxy)alkylene, H<sub>2</sub>CH(OH)CH<sub>2</sub>OR<sub>2</sub>OCH<sub>2</sub>CH(OH)CH<sub>2</sub>-, and C<sub>3</sub>-C<sub>12</sub> hydrocarbyl moieties;

provided that when R<sub>2</sub> is a C<sub>3</sub>-C<sub>12</sub> hydrocarbyl moiety the hydrocarbyl moiety can comprise from about 2 to about 4 branching moieties of the general structure:



-each R<sub>3</sub> is independently selected from the group consisting of H, O, R<sub>2</sub>, C<sub>1</sub>-C<sub>20</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>20</sub> alkyl, substituted alkyl, C<sub>6</sub>-C<sub>11</sub> aryl, substituted aryl, C<sub>7</sub>-C<sub>11</sub> alkylaryl, C<sub>1</sub>-C<sub>20</sub> aminoalkyl, -(CH<sub>2</sub>)<sub>h</sub>COOM, -(CH<sub>2</sub>)<sub>h</sub>SO<sub>3</sub>M, CH<sub>2</sub>CH(OH)SO<sub>3</sub>M, -(CH<sub>2</sub>)<sub>h</sub>OSO<sub>3</sub>M,



-each R<sub>4</sub> is independently selected from the group consisting of H, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>1</sub>-C<sub>22</sub> hydroxyalkyl, aryl and C<sub>7</sub>-C<sub>22</sub> alkylaryl;

-each R<sub>5</sub> is independently selected from the group consisting of C<sub>2</sub>-C<sub>8</sub> alkylene, C<sub>2</sub>-C<sub>8</sub> alkyl substituted alkylene; and

A is a compatible monovalent or di or polyvalent anion;

M is a compatible cation;

b = number necessary to balance the charge;

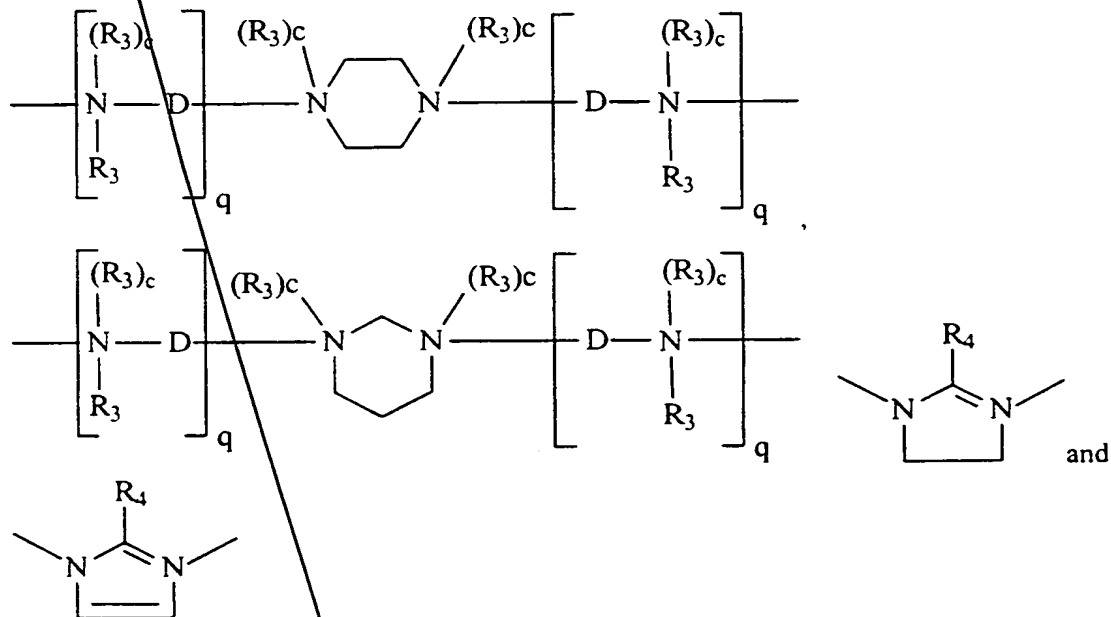
each x is independently from 3 to 1000;

each c is independently 0 or 1;

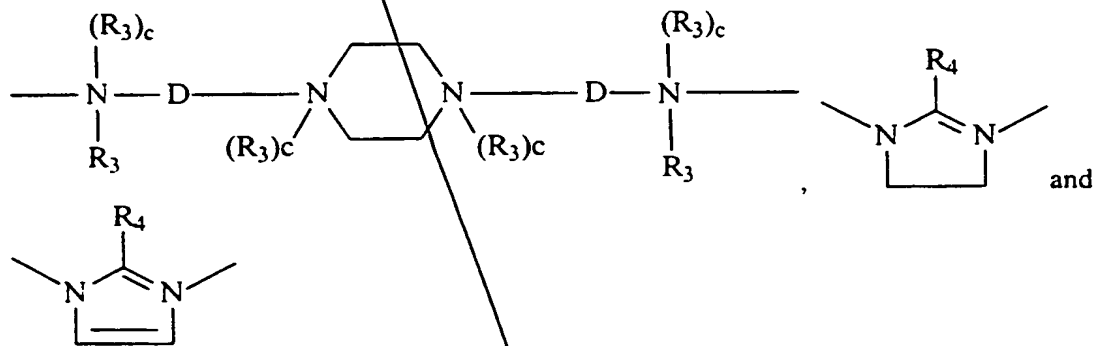
each h is independently from 1 to 8;

each q is independently from 0 to 6;  
 each n is independently from 1 to 20;  
 each r is independently from 0 to 20; and  
 each t is independently from 0 to 1.

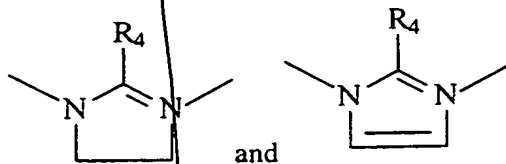
4. The detergent composition of any of claims 1-3, wherein each  $R_1$  is H and at least one W is selected from the group consisting of:



5. The detergent composition of any of claims 1-4, wherein each  $R_1$  is H and at least one W is selected from the group consisting of:



6. The detergent composition of any of claims 1-5, wherein each  $R_1$  is H and at least one W is selected from the group consisting of:



7. The detergent composition of any of claims 1-6, wherein each  $R_H$  is independently selected from the group consisting of  $C_5$ - $C_{20}$  alkyl,  $C_5$ - $C_7$  cycloalkyl,  $C_7$ - $C_{20}$  alkylaryl,  $C_7$ - $C_{20}$  arylalkyl, substituted alkyl, hydroxyalkyl,  $C_1$ - $C_{20}$  alkoxy-2-hydroxyalkyl,  $C_7$ - $C_{20}$  alkylaryloxy-2-hydroxyalkyl,  $(R_4)_2N$ -alkyl,  $(R_4)_2N$ -2-hydroxyalkyl,  $(R_4)_3N$ -alkyl,  $(R_4)_3N$ -2-hydroxyalkyl, and  $C_6$ - $C_{12}$  aryloxy-2-hydroxyalkyl.

8. A laundry additive composition characterized by:

- a) from 1% to 80% by weight of water; and
- b) from 0.01% to 5.0%, preferably from 0.1% to 4.0% by weight of a mixture of cyclic amine based polymers, oligomers or copolymers and hydrophobically modified cellulosic based polymers or oligomers.

9. The detergent composition of any of claims 1-8, wherein the composition further is characterized by an inorganic peroxygen bleaching compound, which is preferably selected from the group consisting of alkali metal salts of perborate, percarbonate and mixtures thereof, and a bleach activator, which is preferably nonanoyloxybenzene sulfonate.

10. The detergent composition of any of claims 1-9, wherein the composition further is characterized by a cellulase enzyme.

add B1